



SPEC® CFP2006 Result

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HITACHI

BladeSymphony BS1000 (Intel Xeon X5460)

SPECfp®2006 = 23.1

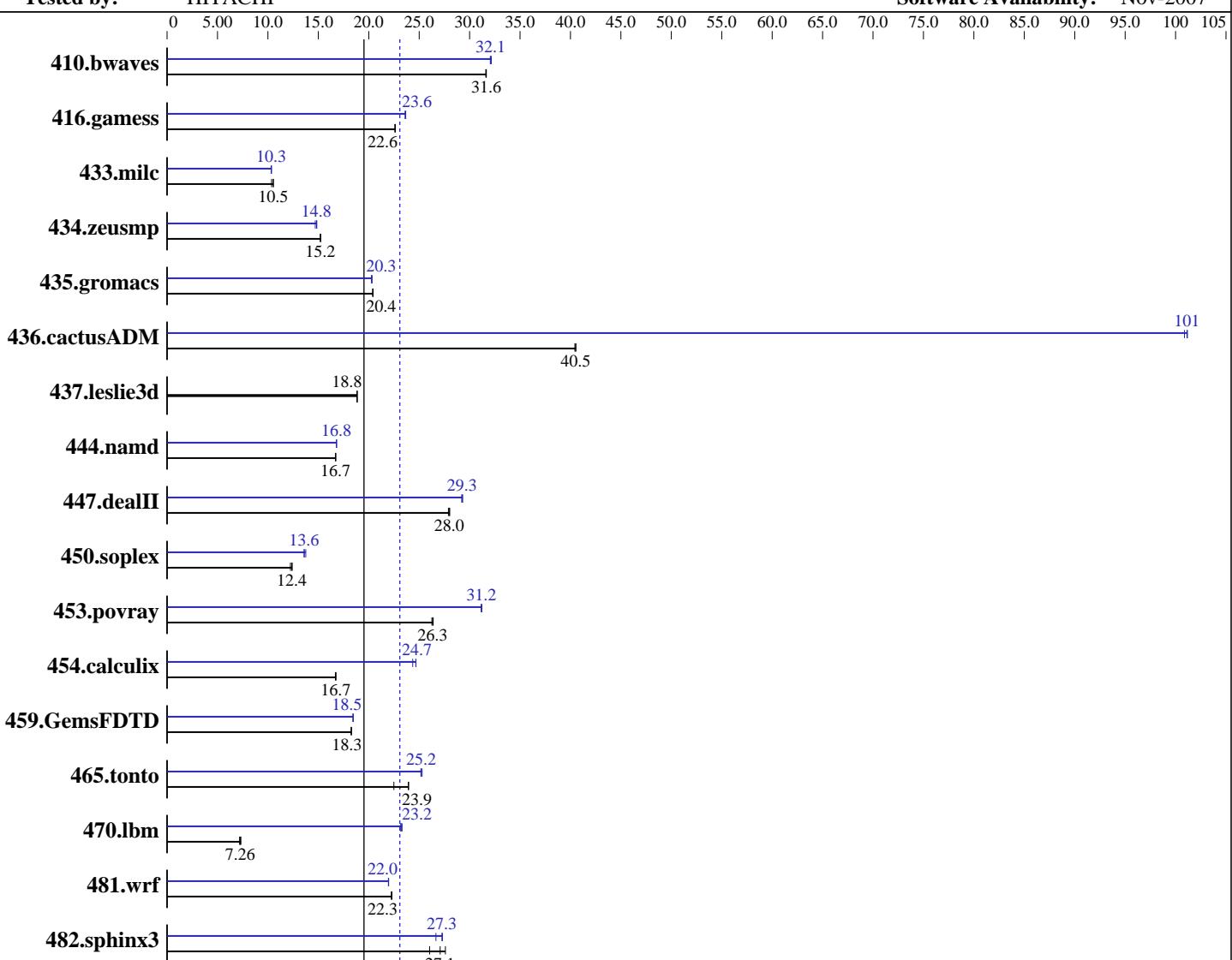
CPU2006 license: 872

Test date: Feb-2008

Hardware Availability: Nov-2007

Software Availability: Nov-2007

Test sponsor: HITACHI



SPECfp_base2006 = 19.5

SPECfp2006 = 23.1

Hardware

CPU Name: Intel Xeon X5460
CPU Characteristics: 1333MHz system bus
CPU MHz: 3160
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1, 2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

Software

Operating System: Red Hat Enterprise Linux Server release 5.1 (Tikanga)
Compiler: Intel C++ and Fortran Compiler 10.1 for Linux
Build 20070913 Package ID: l_cc_p_10.1.008,
l_fc_p_10.1.008
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L3 Cache: None
 Other Cache: None
 Memory: 16 GB(8 x 2 GB PC2-5300F CAS 5-5-5)
 Disk Subsystem: 1 x 73 GB 10000 rpm SAS
 Other Hardware: None

Auto Parallel: Yes
 File System: ext3
 System State: Multi-user run level 3
 Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	430	31.6	429	31.7	429	31.6	424	32.1	424	32.1	423	32.2
416.gamess	866	22.6	866	22.6	865	22.6	827	23.7	829	23.6	829	23.6
433.milc	886	10.4	872	10.5	871	10.5	888	10.3	888	10.3	888	10.3
434.zeusmp	598	15.2	598	15.2	598	15.2	614	14.8	619	14.7	613	14.9
435.gromacs	350	20.4	350	20.4	349	20.4	352	20.3	352	20.3	352	20.3
436.cactusADM	295	40.4	295	40.5	295	40.5	118	101	118	101	118	101
437.leslie3d	499	18.9	499	18.8	499	18.8	499	18.9	499	18.8	499	18.8
444.namd	480	16.7	480	16.7	480	16.7	477	16.8	478	16.8	477	16.8
447.dealII	409	28.0	410	27.9	408	28.0	390	29.3	391	29.3	392	29.2
450.soplex	674	12.4	682	12.2	672	12.4	614	13.6	613	13.6	606	13.8
453.povray	203	26.3	202	26.3	202	26.4	171	31.2	170	31.2	171	31.2
454.calculix	494	16.7	493	16.7	493	16.7	334	24.7	339	24.4	334	24.7
459.GemsFDTD	581	18.3	581	18.3	581	18.3	575	18.5	575	18.5	576	18.4
465.tonto	411	24.0	411	23.9	438	22.5	391	25.2	389	25.3	391	25.2
470.lbm	1911	7.19	1893	7.26	1877	7.32	590	23.3	593	23.2	592	23.2
481.wrf	502	22.2	501	22.3	501	22.3	509	22.0	509	21.9	508	22.0
482.sphinx3	706	27.6	720	27.1	749	26.0	731	26.7	715	27.3	714	27.3

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
 OMP_NUM_THREADS set to number of cores
 KMP_AFFINITY set to physical,0

Base Compiler Invocation

C benchmarks:
 icc

C++ benchmarks:
 icpc

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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

```

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
    433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
    437.leslie3d: -DSPEC_CPU_LP64
        444.namd: -DSPEC_CPU_LP64
        447.dealII: -DSPEC_CPU_LP64
    450.soplex: -DSPEC_CPU_LP64
    453.povray: -DSPEC_CPU_LP64
    454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
    465.tonto: -DSPEC_CPU_LP64
    470.lbm: -DSPEC_CPU_LP64
    481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

```

Base Optimization Flags

C benchmarks:
-fast -parallel

C++ benchmarks:
-fast -parallel

Fortran benchmarks:
-fast -parallel

Benchmarks using both Fortran and C:
-fast -parallel

Peak Compiler Invocation

C benchmarks (except as noted below):

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include
```

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Peak Compiler Invocation (Continued)

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

Peak Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

433.milc: -prof_gen(pass 1) -prof_use(pass 2) -fast -fno-alias
-auto-ilp32

470.lbm: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2
-scalar-rep -prefetch -opt-malloc-options=3

482.sphinx3: -fast -unroll2

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Peak Optimization Flags (Continued)

C++ benchmarks:

444.namd: -prof_gen(pass 1) -prof_use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2
-ansi-alias -scalar-rep-

450.soplex: -prof_gen(pass 1) -prof_use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll4
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch -parallel

416.gamess: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2 -Obo
-ansi-alias -scalar-rep-

434.zeusmp: -prof_gen(pass 1) -prof_use(pass 2) -fast

437.leslie3d: basepeak = yes

459.GemsFDTD: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2 -Ob0
-prefetch -parallel

465.tonto: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof_gen(pass 1) -prof_use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof_gen(pass 1) -prof_use(pass 2) -fast -unroll2
-prefetch -parallel -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -parallel -prefetch -auto-ilp32

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090713.01.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090713.01.xml>



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